W	ork.	Order	ID	61730
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Tuesday, August 31, 2010 3:08:17 PM



Page 1

Item ID:

D205-634-041

Accept



Setup Start



Revision ID:

Item Name:

Required Date: 9/13/2010

Replacement Skidtube

Start Date:

8/31/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:

Sequence ID/

Process Plan:

Date 20-8-31

Tooling:

Date:

Date:

Run

Start

Stop



QC:

Date:

SPC (Y/N):

Tool # Plan

Accept

Reject

Insp.

Work Center ID **Draw Nbr**

Operation Description

Revision Nbr

Set Up/ **Run Hours** **Tool ID**

Code *

Qty

Reject Qty Number

Stamp

D2580

Rev D

100

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

110

CNC Bend 1

CNC Delta 100 Bender

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

1-Bend as per program D2580.C on CNC Bender and Folio 16

2-Cut tubes as per Dwg. D2580

3- scribe batch# in aft end of tube

10-9-27

Dart Ae	rospace	e Ltd	4					
W/O:	•		\	ORK ORDER CHANGE	S			*
DATE	STEP	PROCEDURE CHANGE				Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Part No		PAR #: esolution:						
							Date	
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		Description of NC		Corrective Action Section		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto
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Work Order ID 61730

Tuesday, August 31, 2010 3:08:17 PM



Page 2

Item ID:

D205-634-041

Accept



Setup Start

Stop

Op 10.09- 270



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

Required Date: 9/13/2010

8/31/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:	Process Plan:	rocess Plan: Date: Tooling: Date:	ate:		Run Start					
	QC:	Date:	SPC (Y/N):	D:	ate:			Sto	P	
Sequence ID/ Work Center ID 120	Operation Description	,	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp

Skidtubes

Memo

0.00

0.0

1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

130

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

1 - BE 1909/90

N/O:			WORK ORDER	CHANGES				4
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		1.00						
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	Resolutio	on:	Disposition:	QA: N/C (Closed:		Date: _	
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Work Order ID 61730

Tuesday, August 31, 2010 3:08:17 PM



Page 3

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/31/2010

Start Oty: 1.00

Required Date: 9/13/2010

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

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Annrovals Process Plan:

Date:_____

Date: Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop



Sequence ID/ **Work Center ID**

140

Skidtubes Skidtubes

Operation Description

Set Up/

Run Hours

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Memo

0.00

0.00

A/R□□□ Aluminum Rod

1-Weld step D2576 as per Dwg. D2580 and QSI 004

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8", drill, weld other side, pass 3/8" drill A/R□□□ Aluminum Rod

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64", adjust stopper not to hit web.Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

W/O:			WORK ORDER CHANGES					N _e				
DATE	STEP	PRO	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Work Order ID 61730

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Page 4

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/31/2010

Start Otv: 1.00

Required Date: 9/13/2010

Req'd Qty: 1.00



Date: _____

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Operation

Description

Date: _____

Tooling:

SPC (Y/N):

Date:

Date:

Start

Stop



Set Up/ **Run Hours** **Tool ID**

Tool # Plan Code

Reject Accept Oty

Qty

Run

Reject Number

Insp. Stamp

Work Center ID

150

Sequence ID/

Quality Control

Memo

160

OC Quality Control QC5- Inspect part completeness to step on W/O

OC10- Inspect visual per QSI004- ground welds

0.00

Diololay BR 10-10-6

170 HandFinish Pressure Wash per QSI005 4.3

Memo

Memo

0.00

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd

cap out of solution.

W/O:			W	ORK ORDER CHAI	NGES	*		ushe.		1				
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Work Order ID 61730

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Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Required Date: 9/13/2010

Replacement Skidtube

Start Date:

8/31/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Date: Tooling:

Set Up/

SPC (Y/N):

Run Hours

Date: Date: Run Start

Reject

Qty

Reject

Stop



Number Stamp

Insp.

Sequence ID/ Work Center ID

180

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Memo

START TIME: OVEN TEMPERATURE

FINISH TIME:

0.00

Code

Tool # Plan

Accept

Qty

190

QC

Quality Control

QC3- Inspect Part Finish

0.00 BL10-10-6

=> M 10/10/06

Memo

0.00

W/O:		WORK ORDER CHANGES												
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Work	Order	H)	61730

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Page 6

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/31/2010

Start Qty: 1.00

Required Date: 9/13/2010

Req'd Qty: 1.00

Memo



Cust Item ID: Customer:

Reference:

Approvals:	Process	Plan:	Date:	Tooling:	Da	ate:		
	QC:		Date:	SPC (Y/N):	Da	ate:		
Sequence ID/		Operation		Set Up/	Tool ID	Tool #	Plan	Accept
Work Center	ID	Description		Run Hours			Code	Otv

0.00

10/10/06

Reject Oty

Start

Stop

Reject Number

Insp. Stamp

200

HandFinish

Hand Finishing

0.00

Run

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates ✓ A/R □□□ Sikaflex-291 PM/15/1 □□□

Sikaflex expire date: 1110

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

3-Inspect for foreign object per QSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with Sikaflex. Clean excess adhesive

Dart Aei	rospace	Ltd							r	
W/O:			WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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NCR:		1	WORK ORDE	R NON-CONFORMA	NCE (NCF	R)				
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		Description of NC		Corrective Action Section B		Verification	Approval	Approval			
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Work Order ID 61730

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Item ID:

D205-634-041

Accept

Setup Start

Stop

Revision ID:

Item Name:

Required Date: 9/13/2010

Replacement Skidtube

Start Date:

8/31/2010

Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: Date:

Tooling:

SPC (Y/N):

Date: Date:___

Start Run

Stop



Sequence ID/

Work Center ID

210

OC

Quality Control

Operation Description

QC: ____

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Tool # Plan Code Accept Qty

Reject Qty

Reject Insp. Number Stamp

0.00

0.00

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per QSI 024

220

Packaging

Packaging

Memo

0.00

0.00

Packaging

Identify and pack for shipping as per PPPD205-634-041

Location:

PPP Rev:

230

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

G1 300 (e) 10/40

10/10/08/20 MF 10-10-08

W/O:	rospace L			WORK ORDER (CHANGES				,
DATE STEP			PRO	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Picklist Print

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Work Order ID: 61730

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube



Start Date: 8/31/2010

Required Date: 9/13/2010

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

D2576-3

Step (maching detail)

IPP Rev:N \Box 02.08.28 \Box FP was QC5 in Step 27; Added QC5 to Step 30 \Box KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09 SS Wearplates & Gaskets

No

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure		Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
		Manufactured	No			110	Each	7.0000	1 	1			
205 Skidtube bent detail				Location LG	B6204,	17 <u>Loc (</u>	<u>Otv</u> 6	Loc Code	C.	$\overline{\mathcal{O}}$	N		_
					57028 60953		1 2		_		_	10-9	-2

Location D	Loc Oty	Loc Code
LG 1362047	6	
57028	1	
60953	2	
60956	1	
61191	2	
ST046	1	
59856	1	

Manufactured

140 78.0000 Each

Location	Loc Oty	Loc Code
LG	78	
46661	30	
52215	48	

_____ BE 10-09-30

Dart Ae	rospace	Lta							,
W/O:			WO	RK ORDER CHANGE	S				, , ,
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR	3)			.
		Description of NC Section A		Corrective Action Section		Verific	cation	Approval	Approval
DATE	STEP		Initial Chief Eng	Action Description Chief Eng	Sign & Date		on C	Chief Eng	QC Inspector
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Tuesday, August 31, 2010 3:08:21 PM

Work Order ID: 61730

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube



Start Date: 8/31/2010

Required Date: 9/13/2010

Start Qty: 1.00

Required Qty: 1.00

D2579

Manufactured

Manufactured

No

140

344,0000 Each

20

20

Crossbolt Spacer

Location	<u>Lo</u>	c Oty	Loc Code		
LG		344			
57052		5			
57348		4			
58433		2			
59113		62			
60845		102			
61199		169			\mathcal{L}^{ϵ}
	200	Each	74.0000	1	1

D2855

No

20 BE 10/09/30

Cap

		Location	<u>Lo</u>	c Qty	Loc
		FP6		1	
		56613		1	
		ST026		73	
		50513		1	
		50770		28	
		51539		2	
		5 <u>3791</u>		42	
Purchased	No		200	Each	1,5

115371

c Code

500

.522.000

AN3-5A Bolt

Location	Loc Oty
ST350	1522
105057	522
115016	500

Loc Code

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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	Resc	olution:	Disposition	·	_ QA: N/C Cld	osed:		Date:					
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCR)							
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector				
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Picklist Print

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Page 3

Work Order ID: 61730 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube		HT 1111 1866 INI SELETE Ilb 1868 Brit Brit III (1868 Brit III)			Start Date: 8	/31/2010	Required Date: 9/13/2010
					Start Qty: 1	.00	Required Qty: 1.00
AN960JD10L NAS1149D0332J Purchased Washer	No		200	Each	2,471.000 2	2 I)	10/10/06
		Location	Loc	<u>Oty</u>	Loc Code		
		ST348		2471			
		110985		2471		_x2	
ALS7-1032-130 Purchased	No		200	Each	1,378.000 50	50	
						<u> </u>	0110100
		Location	Loc	Oty	Loc Code		
		FP		861	11114723	<u>) x Sc</u>	
		115079		861	777		
		ST282		517			
		113238		17			
ANIZGIA		115502		500			
AN3C4A Purchased	No		200	Each	1,513.000 50	50 _JU	10/10/06
		Location	Loc	<u>Oty</u>	Loc Code		
		ST303		452			
		115438		452			
		ST350		1061			
		114108		14			
		114416		12			
		114523 114941		2 33			
		115300		1000		x 50	

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Tuesday, August 31, 2010 3:08:21 PM

Work Order ID: 61730 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 8/31/2010 Required Date: 9/13/2010 Start Qty: 1.00 Required Qty: 1.00 AN960C10L NAS1149C0332. Purchased No 200 Each 155.0000 50 50 M 10/10/06 washer Location Loc Oty Loc Code ST245 155 107534 29 x 50 M115816 109545 54 111548 72 D3566-13 Manufactured No 200 Each 22.0000 10/10/04 Gasket Location Loc Qty Loc Code FP012 22 59661 14 60209 D3566-5 Manufactured No 200 Each 25.0000 Gasket Location Loc Qty Loc Code FP 22 22 60869 FP015 3 59158 3 D3566-1 Manufactured No 200 18.0000 Each Gasket Location Loc Qty Loc Code FP015 1361992 18 57715 2 60202 10 61215 6 Tuesday, August 31, 2010 3:08:21 PM **Shop Packet Print** Page 4

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DATE	STEP	Description of NC			ection B		Verifica	tion	Approval	Approval
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Picklist Print

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Page 5

Work Order ID: 61730 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube **Start Date: 8/31/2010** Required Date: 9/13/2010 Start Qty: 1.00 Required Qty: 1.00 D3564-11 Manufactured No 200 Each 14.0000 Wearshoe Loc Qty Location Loc Code FP019 14 59941 1 60302 13 D3564-13 Manufactured No 200 Each 19.0000 Wearshoe Location Loc Qty Loc Code FP17 19 59660 7 60862 12 D3564-9 Manufactured No 200 Each 17.0000 Wearshoe Location Loc Oty Loc Code FP 55334 FP019 16 59201 3 60236 13

rospace	Ltd						• •
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Tuesday, August 31, 2010 3:08:21 PM

Work Order ID: 61730 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube **Start Date: 8/31/2010** Required Date: 9/13/2010 Start Qty: 1.00 Required Qty: 1.00 D3564-5 Manufactured No 200 Each 16.0000 Wearshoe Location Loc Qty Loc Code FG 34806 1 FP19 2 57525 58709 FP-19 13 59157 2 60868 11 D2594-3 Manufactured No 200 Each 187.0000 16 16 O-Ring, 205 Skidtube Location Loc Qty Loc Code FP 187 55546 19 NB 61762 58191 12 59358 156 D2594-1 Manufactured No 200 Each 307.0000 16 16 Plug, 205 Skidtube Location Loc Qty Loc Code FP 183 361932 42807 112 55002 71 FP14 124 58434 15 59110 109

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DATE	STEP	PR	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A :	_ Date: _	
	Res	olution:	Disposition	!:	QA: N/C CI	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR)			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	Sign &			Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chiết Eng	Date				
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DESIG	***************************************	DRAWN BY	DART AEROSPACE LTD . HAWKESBURY, ONTARIO, CANADA
CHECK	KED.	APPROVED	DRAWING NO. REV. D
L	W	*	D2580 SHEET 1 OF 3
DATE			TITLE SCALE
 07.0	02.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183



QTY -041	QTY -045	Part Number	Description
Х		D2580-041	SKIDTUBE ASSEMBLY
	Х	D2580-045	SKIDTUBE ASSEMBLY
1	1	D2500-1-190	EXTRUSION
1	1	D2576-3	STEP
20	24	D2579	CROSS BOLT SPACER
16	16	D2594-1	PLUG
16	16	D2594-3	O-RING
1	1	D2596	205 WEB
1	11	D2855	AFT CAP
11	1	D3564-5	WEARSHOE
1	1	D3564-9	WEARSHOE
1	1	D3564-11	WEARSHOE
1	1	D3564-13	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
11	1	D3566-13	GASKET
50	50	ALS7-1032-130	INSERT
		or AKS7-1032-130	
		or AKS4-1032-130	
		or AELS-1032-130	
50	50	AN3C4A	BOLT
2	2	AN3-5A	BOLT
50	50	AN960C10L	WASHER
2	2	AN960JD10L	WASHER

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WORK ORDER
NO. 44-73

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

SEE NOTES ON

PAGE 2 FOR D2580-041 AND

PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

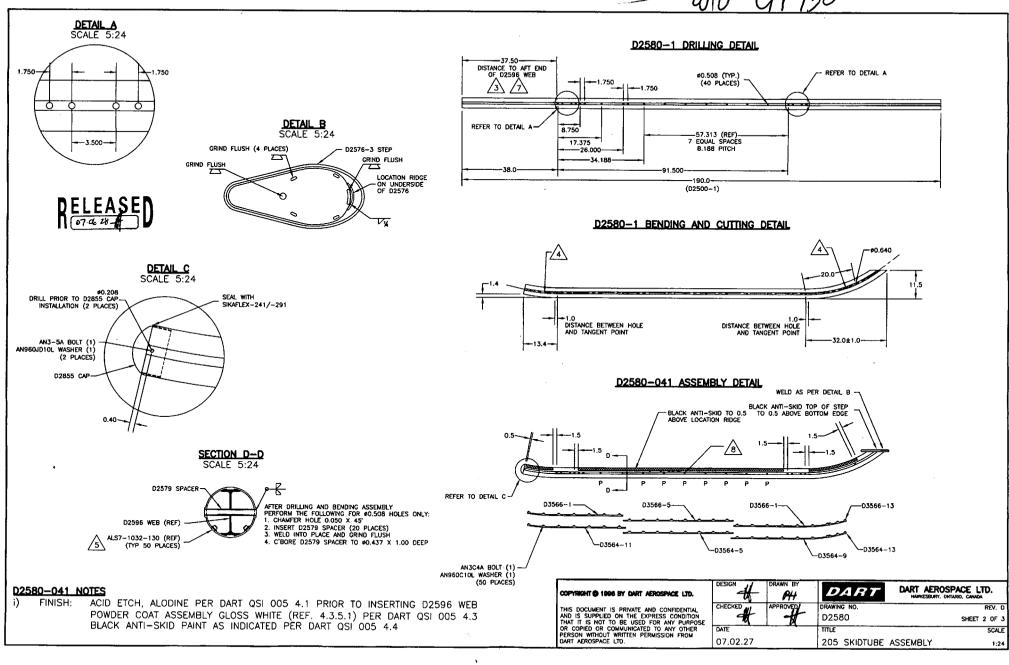
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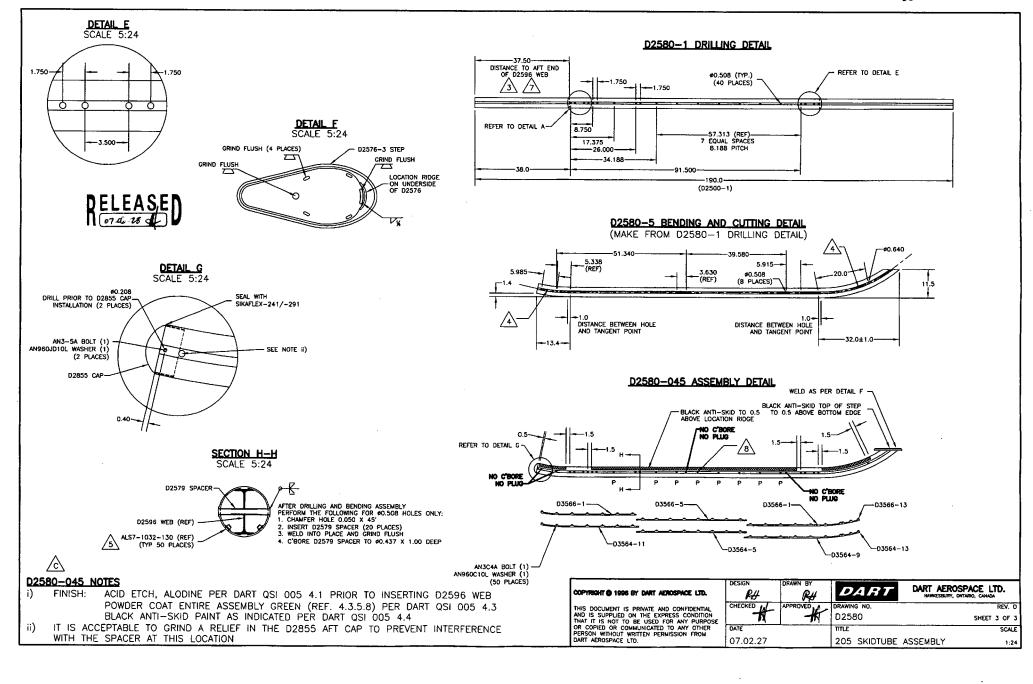
W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	By Date Qty Approval Chief Eng / Prod Mgr QC								
						20					

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution: _		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC	Corrective Action Section B			Verification	Approval	Approval
DATE	E STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:							
	Re	solution:						Date: _	
NCR:		,	WORK ORD	ER NON-CONFORMA	ANCE (NC	R)			
DATE	STEP	Description of NC	ription of NC Section A Corrective Action Initial Action Des Chief Eng Chief E		verilic			Approval	Approval
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W/O:			WORK ORDER CHANGES						
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Part No:		PAR #:	Fault Category:		NCR: Yes	No DQ	A:	_ Date: _	
	Resolu	ition:	Disposition:		QA: N/C C	losed:		Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
	STEP	Description of NC	Corrective Action Section B			Verification	Ammayal	Ammuoval		
DATE		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
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NO. <u>234</u>

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclan Ellicht	
Job number: 61353	
Part number: 5205-634-041	
Description: 205 skid tube	
Welding Process: Tig[✓ Mig[]	
Base materiel: Aluminism	
Current: AC[DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration: <u>UNACCEPTABLE</u>	pass[] fail[] pass[] fail[]
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier A.D.J. Welder Borchy Edlad	Date of Test Coupon 10.08.25 Date of Test Coupon 10.09.25

The above named individual is qualified in accordance with AWS D17.1.2001 to weld